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(54) Title: MESSAGE BROADCAST SYSTEM		

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(57) Abstract

A message broadcast system and method are provided. In one aspect of the present invention a central controller (18) is provided for receiving message data (12, 14, 16) containing personal identification data (e.g., email address, postal address, phone number, etc.) and for automatically controlling preselected marketing warehouse database systems to remove data matching the personal identification data from the database systems. In another aspect of the present invention, the central controller receives message data containing information request data and automatically broadcasts the message data to preselected database systems (22, 24, 26) based on the specialized nature of the information request so that these database systems disperse information requested in the information request. In both aspects, the system of the present invention can be appropriately adapted to communicate over a network server, and also, to permit financial transactions between the central controller and a user to take place over the network server.

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MESSAGE BROADCAST SYSTEM

The present invention relates to a message broadcast system. More particularly, the present invention relates to a system and method of accepting message data from a plurality of sources and automatically uploading this data to a plurality of preselected, external database systems while controlling these database systems to reflect the information contained in the message. Particular utility of the present invention is in the prevention of receiving unsolicited email, mail and telephone calls from direct advertisers by providing a system for the automatic removal of personal identification data from the database systems of bulk mailing and marketing groups. Another utility for the present invention is for an information dispersal system by providing a system for the automatic dispersion of information and/or information request data to a plurality of preselected database systems that contain data related to the information and/or information request data; although other utilities are contemplated herein.

One problem that virtually every person who receives mail has experienced is receiving unsolicited advertisements or so-called "junk mail". Most people find junk mail to be time consuming and frustrating because they must sift through the unsolicited ads to get to important mail. Email users who have email accounts on the internet suffer from the same dilemma, as unsolicited email advertisements have become a highly popular method of attracting business. Again, receivers must waste valuable time reading and deleting unsolicited email while trying to read important email. Telemarketing, like bulk mailing and bulk emailing, has grown into a multibillion dollar industry and is particularly frustrating because often telemarketers choose to telephone prospective customers at hours when customers are likely to be home (e.g., nights, weekends, etc.).

The majority of unsolicited advertisements, via mail, email, or telephone, stem from direct mail marketing groups who maintain vast databases containing thousands of individuals' personal identification (e.g., name, email address, mailing address, telephone number, etc.). These direct mail marketing groups, or "warehouses", sell

customer lists to direct mail, email and telephone advertisers, where each list contains 1 2 a certain number of individual personal identification data. 3 According to several authorities, there are over 123,000,000 postal addresses in the US that receive mail from the US Postal Service. Individually, an average of 4 41 pounds of mail are sent to every adult per year. About 44% goes unread directly 5 6 into the garbage and about 93% of junk mail is ultimately discarded. The average 7 American spends 8 full months of their life opening postal bulk mail. In addition to 8 time waste imposed by bulk mail upon the receiver, bulk mailing has substantial 9 environmental impacts as well. Approximately 60% of bulk mail is never read, rather, 10 it is discarded immediately. This greatly contributes to the amount of solid waste deposited in land fills, where it is estimated that 49% of municipal solid waste is 11 12 generated from paper and paper products. Thus, bulk mailing creates an individual impact in terms of frustrating time waste, and an environmental impact in terms of 13 14 excess solid waste. 15 Producing such a vast amount of paper products used by bulk mailers also has significant environmental consequences. Dioxin, one of the most toxic substances. 16 known, is generated by paper mills which use chlorine bleaching in their process of 17 producing PVC (polyvinyl chloride) mailers and bags, as used quite often by bulk 18 19 mailers. Aside from the immediate toxicity of dioxin, the long-term affects of exposure to dioxin are now known to include an overall increase of cancer, reduced 20 21 sperm count and breast cancer. There are over 14.7 million people in the US who access on-line services. 22 Direct mailers and bulk mailers are now using the internet to target email addresses. 23 Junk email, or "spam", is an annoyance because the recipient must open the mail, read 24 it and then delete the message. In addition bulk email consumes finite internet 25 resources by consuming memory space, access time and phone line usage which in ... 26 27 turn consumes energy and natural resources. 28 Bulk mailers and direct market advertisers admit that there is very little success from bulk mailing. Rather, the approach is to "blanket the market" with 29 thousands of mailings knowing that the return is a very small percentage. One 30

solution to prevent bulk mail, bulk email and unsolicited telephone calls is that a person can have his or her information deleted from the database of a bulk mailer or direct advertiser. However, a person must contact each of these warehouses individually to have his or her personal information removed. There are, at present, approximately 4200 such warehouses, thus, it would be virtually impossible for an individual to access all of the warehouses that contain personal data that is sold to, or used by, bulk mailers, bulk emailers and direct telemarketers. Furthermore, more and more direct marketing warehouses are appearing because of the tremendous financial value of supplying personal identification data to direct mailers and marketing groups.

Thus, there exists a need for a system that will allow a user to supply a message containing personal information such as name, address, email address and telephone number to a central controller and have the central controller automatically broadcast the message to a plurality of preselected database systems containing the personal information, and to have a central controller control these database systems to remove personal information from the database systems.

Most states have laws mandating that direct mailers and marketing groups remove personal information from their customer lists, upon request from an individual. However, as mentioned above, an individual must contact every direct mail and marketing warehouse in order to effectively remove their personal information from being accessed by bulk mailer, bulk emailers and telemarketers. Accordingly, there exists a need to allow an individual upload a request to remove personal information from a vast collection into a central controller and have that central controller upload that individuals request to a plurality of database systems, whereby the administrators of such database systems will remove that individuals personal information from the database, as required by law.

There exist many commercially available products that provide a system to remove "spam" (unsolicited email) from an email account. However these products typically employ a locally stored program that contains a locally stored list of known "spamers", where the program simply filters out any email matching the list of known "spamers". Thus, disadvantageously, any new "spamers" having new email addresses

will not be filtered out. Moreover, a spamer need only change the email address to 2 circumvent such a system. Most significantly, such systems do not solve the ultimate 3 problem of unsolicited email because such systems fail to remove email account information from the source of the spam, i.e., marketing warehouses. 4 5 Unfortunately, none of the prior art systems discloses a system having a 6 central controller that automatically broadcasts a user supplied message to a 7 preselected set of external databases and control those databases to reflect information data contained in the message. Moreover, none of the prior art message broadcast 8 9 systems contemplate providing a system that utilizes a centralized controller that allows customers to upload personal identification data whereby the centralized 10 controller automatically communicates with and controls a plurality of preselected 11 databases to remove information from those databases that matches the personal 12 identification data. In addition, none of the prior art systems provide a message 13 14 broadcast system that allows a user to upload a removal request to a central controller and have that central controller broadcast that user's removal request to a plurality of 15 16 direct mail and marketing warehouses. Another aspect of the present invention is in the dispersal of information based 17 on a particular information request. Information access and dispersal is known in the 18 19 art. For example, a user can access the internet and perform a search over the internet in an attempt to reveal sources that might contain the particular information request. 20 Several search sites on the internet, for example, Yahoo, AltaVista, Netscape, etc. are 21 available to users. However, such systems are most often hit-or-miss searches that 22 23 require a user to spend valuable time modifying search parameters to reveal the information. Moreover, such searches are typically very broad in scope (e.g., the 24 entire internet is searched) which usually does not give specific information that is 25 requested, rather, most often such searches only reveal broad aspects of a particular 26 27 search request. Inherently, searching over the internet is often called "dummy" searching 28 because internet search routines are designed to handle a broad variety of searches. 29 These search results are rarely helpful because of the broad nature of the search and 30

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the voluminous "hits" that such searches find. Internet searches are ill equipped to 1 handle specialized searches based on specific, targeted types of information because 2 3 the internet is designed specifically for broad applicability. Thus, internet searching 4 for specialized information is highly inefficient and most often does not provide meaningful results. Thus, there exists a need to provide specialized searching of a 5 plurality of related database systems based on specific parameters provided by a user, 6 7 thereby providing efficient and meaningful results to users who require specific 8 information. 9 Prior art message broadcast systems include LAN and WAN systems that can 10 transmit single-point-to-multiple-point data. However, none of the prior art solves the 11 problem of targeting specific database systems for information removal and/or information request data since none of the prior art contemplates providing a 12 centralized controller adapted to accept such data from a plurality of sources (i.e., 13 users and customers) and have the centralized controller control a plurality of 14 15 appropriate database systems to either remove the information data from the appropriate database systems, or, in the alternative, transmit the information request 16 data to the appropriate database systems so that these database systems can provide 17

The message broadcast system of the present invention, and as described herein, is intended to be a specialized information dispersal system that provides a user with efficient, meaningful information for a variety of specialized interests. For example, the present invention can be utilized by doctors who wish to broadcast an email message containing a request to solicit responses on, e.g., the latest drug for a given disease, the latest reports on a given disease, the latest research on a disease, the latest information on treatment of a disease, and/or reporting (via message broadcast) personal research on a disease. Such a system must, of course, be in communication with appropriate database systems such as universities, hospitals, governmental agencies (e.g., CDC), doctor groups, research groups, pharmaceutical companies, etc.

the information requested directly back to the user or customer.

The message broadcast system herein described can also be used to automatically broadcast an email message to every senator, congressman, party

art.

official, elected officials involved in a particular bill up for vote, etc., so that a user can register voting and political preference. In addition, the system of the present invention can be utilized to register conventions, seminars and/or local events and provide a system whereby users can order information related to a particular convention, seminar or local event. Other utilities are contemplated herein. For example, the present invention can be utilized as a centralized commercial transaction system whereby users (or customers) can engage in a variety of commercial transactions using the aforementioned information dispersal system of the present invention. These are just a few examples of the specialized nature of the present invention that has clear advantages over prior art information dispersal systems. To facilitate meaningful efficient information dispersal, the present invention is adapted to communicate with and control a plurality of preselected database systems that are related directly to an information request, so that resources and time are not wasted by overly broad searches that rarely provide meaningful results such as those found in the

Accordingly, the present invention provides a message broadcast system comprising at least one message data generator adapted to generate message data that contains preference data; at least one preselected database system; and a central controller adapted to communicate with said message data generator and said database systems to receive and store said message data from said message data generator, and to broadcast said message data to said preselected database systems to reflect said preference data contained in said message data.

One embodiment of the present invention provides a system to remove information from a plurality of remote database systems comprising a central controller adapted to communicate with at least one message data generator to receive and store at least one message containing personal identification data therein generated by said message data generator, said central controller generating control signals to control a plurality of preselected database systems to remove information matching said personal identification data from said database systems.

In method form, the present embodiment provides a method to remove 1 2 personal identification data from a plurality of database systems containing such data comprising the steps of generating a message containing personal identification 3 information therein; uploading the message into a central controller; having the 4 central controller select a plurality of remote database systems having the personal 5 identification data therein; connecting the central controller to the plurality of remote 6 database systems; and 7 controlling the plurality of remote database systems from the central controller to 8 9 remove information matching the personal identification data from the database 10 systems. Advantageously, the system and method of this embodiment can be provided 11 with a PIN server system in communication with a network server. The PIN server is 12 adapted to generate a unique PIN access code to a user. The message data generator 13 can be adapted to communicate with the PIN server via said network server and 14 adapted to generate message data that contains the PIN access code and personal 15 identification data related to the user of said message data generator. Also, the central 16 controller can be adapted to communicate with the network server to receive and store 17 the message data from the message data generator and adapted to communicate with 18 and control the preselected database systems to remove the personal identification 19 data from the database systems. 20 Another embodiment of the present invention provides an information 21 dispersal system comprising a central controller adapted to communicate with at least 22 one message data generator to receive and store at least one message containing 23 information request data therein generated by said message data generator. The 24 central controller generates control signals to control a plurality of preselected 25 database systems to disperse information requested in the information request data 26 back to the message data generator. 27 In method form, the present embodiment provides method to disperse 28 information based on information contained in an information request comprising the 29 steps of generating a message containing information request data therein; uploading 30

the message into a central controller; having the central controller select a plurality of remote database systems having information related to the information request therein; connecting the central controller to the plurality of remote database systems; and controlling the plurality of remote database systems from the central controller to disperse information related to the information request from the database systems.

Advantageously, the system of this embodiment can be provided with a PIN server system in communication with a network server wherein the PIN server adapted to generate a unique PIN access code to a user. The message data generator is adapted to communicate with the PIN server via said network server and adapted to generate message data that contains the PIN access code and information request data. The central controller is adapted to communicate with the network server to receive and store the message data from said message data generator and adapted to broadcast the message data to a plurality of preselected database systems and control the database systems to disperse information related to the information request.

The aforementioned PIN server can be adapted to provide the user with a debit report and provide the central controller with a credit report. Thus, advantageously, the present invention can provide an account system for each individual user based on the PIN access code. Advantageously, the central controller can be adapted to permit user access to the central controller only after verification of the PIN access code.

In any of the embodiments described herein, the central controller is adapted to control the database systems to optimally permit information removal and/or information dispersal. Advantageously, central controller contains optimal search routines (algorithms) and removal routines, and such optimal routines are based on the type of information contained in the message data (i.e., information removal request or information dispersal request) and the specific database system which central controller will control. Thus, central controller contains a subsystem which is adapted to automatically interpret the message data for the information contained therein, determine which databases are to be controlled, and to automatically employ the optimal search and/or removal control routine based on the message data and the particular database system. Thus, advantageously, central controller is adapted to

l	employ multiple optimal control and search and/or removal routines for a
2	predetermined set of database systems based on the message data. Thus, the present
3	invention provides efficient information dispersal based on particularized information
4	request to disperse information concerning a plurality of specialized user preferences.
5	Such a system is heretofore unseen in the art because the prior art does not provide for
6	efficient, specialized information dispersal; nor does the prior art provide a system to
7	remove personal identification from a plurality of preselected marketing warehouse
8	database systems. Moreover, the information removal and/or information dispersal
9	system of present invention has advantages over the art because the central controller
10	is adapted to optimally control a specific set of geographically remote database
11	systems based on stored control parameters and given message data containing an
12	information request and/or information removal request. Such advantages are not
13	found in the prior art.
14	It will be appreciated by those skilled in the art that although the following
15	Detailed Description will proceed with reference being made to preferred
16	embodiments and methods of use, the present invention is not intended to be limited
17	to these preferred embodiments and methods of use. Rather, the present invention is
18	of broad scope and is intended to be limited as only set forth in the accompanying
19	claims.
20	Other features and advantages of the present invention will become apparent
21	as the following Detailed Description proceeds, and upon reference to the Drawings,
22	wherein like numerals depict like parts, and wherein:
23	Figure 1 is a functional block diagram of a preferred embodiment of the
24	message broadcast system of the present invention;
25	Figure 2 is a functional block diagram of a message data input stage of the
26	preferred embodiment of FIG. 1;
27	Figure 3 is a functional block diagram of a message data output stage of the
28	preferred embodiment of FIG. 1;
29	Figure 4 is a flowchart illustrating the operational flow of one preferred
30	embodiment of FIG. 1;

1	Figure 5 is a flowchart illustrating the operational flow of another preferred
2	embodiment of FIG. 1;
3	Figure 6 is a functional block diagram of another embodiment of a message
4	data input stage of FIG. 1;
5	Figure 7 is a flowchart illustrating the operational flow of one preferred
6	embodiment of the message data input stage of FIG. 6;
7	Figure 8 is a flowchart illustrating the operational flow of another preferred
8	embodiment of the message data input stage of FIG. 6;
9	Figure 9 is a functional block diagram of another embodiment of the message
10	data input stage of FIG. 1;
11	Figure 10 is a functional block diagram of another embodiment of the message
12	broadcast system of the present invention;
13	Figure 11 is a flowchart illustrating the operational flow of one preferred
14	embodiment of FIG. 10; and
15	Figure 12 is a flowchart illustrating the operational flow of another preferred
16	embodiment of FIG. 10.
17	FIG. 1 is a functional diagram of one preferred embodiment of the present
18	invention. Message broadcast system 10, comprises a message data input stage 20
19	and message data output stage 30. Included in a preferred embodiment is at least one
20	12, and preferably a plurality of message data 12, 14, 16, a central controller 18 and
21	at least one 22, and preferably a plurality of database systems 22, 24, 26. Central
22	controller 18 receives message data 12, via a communications interface, and
23	automatically communicates with and controls database 22 to remove and/or disperse
24	information from database 22 that matches information contained in the message data
25	12. Preferably, system 10 provides an automated central controller 18 to automatically
26	communicate with and control a plurality of databases 22, 24, 26 upon being supplied
27	with message data 12 from a user. Each of these functional components of the present
28	embodiment will be more fully described below.
29	It should be understood at the outset that message broadcast system 10, in its
30	broadest sense, operates both as an information removal system and an information

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1 dispersal system. Operating as an information removal system 10, message data 12 2 can be personal identification data (e.g., name, address, email address, phone number, 3 etc.) that is supplied by a user to the central controller 18 and central controller 4 communicates with and controls selected database systems 22 to remove personal 5 identification data therefrom. Included in message data 12 is a request to have the personal identification data removed from systems 22 that supply bulk mailers, bulk 6 7 emailers and telemarketers with this information. Thus, preferably, database systems 8 22 are marketing warehouse systems used by bulk mailers, bulk emailers and 9 telemarketers. Database systems 22 are selected by the central controller 18 based on the content of the message data, i.e., a request to have an email address, postal address 10 11 or phone number, or all of the above, removed from the marketing warehouse systems 12 22. 13 Operating as an information dispersal system 10, message data 12 can be information request data that is supplied by a user to the central controller 18 and 14 central controller communicates with and controls selected database systems 22 to 15 disperse information related to the information request data from the database systems 16 22 back to the user. While not wishing to be bound by example, information request 17 18 data (message data) 12 can be a request for information related to a professional organization (e.g., medical, legal, engineering, etc.), trade organization (e.g., 19 20 electricians, plumbers, technicians, etc.), civic activities (e.g., voting preference, government actions/ bills, etc.), community activities (e.g., conventions, events, etc.), 21 commercial activities (e.g., business transactions, etc.) or any other particularized 22 23 request for information. Accordingly, database systems 22 are database systems that 24 contain such information and are selected by the central controller 18 to forward the information to the user in response to the information request. Thus, for example, a 25 physician can upload a request for information (message data 12) on the latest drug 26 for a disease and/or the latest report on a disease and/or latest research on a disease 27 into the central controller 18 to have the central controller 18 automatically 28 communicate with and control a plurality of preselected database systems 22 to 29 30 forward information in response to the request.

1 Unless otherwise stated herein, message data 12 shall be understood to comprise information request data and/or personal identification data. Accordingly, 2 3 database systems 22 shall be understood to be related to the given message data 12. Referring to FIG. 2, message input stage 20 of FIG. 1 is depicted. Message 4 5 data 12 is generated by a message data generator 32. Message data generator 32 can be a personal computer, email terminal, or the like, or any other means of generating a 6 7 text message containing personal information. In a preferred embodiment, message data generator 32 is a personal computer used by a customer or user 28 at a remote 8 9 location. Although not shown, message data generator 32 also includes processor, 10 memory, input devices, monitor, and anything else associated with a personal 11 computer. Message data generator 32 also includes a communication interface 34 to 12 communicate with the central controller 18. In a preferred embodiment, 13 communication interface 34 is a network server interface which permits the user to 14 access the network (e.g., world wide web) and includes email transmissions network 15 communication protocol. Communication interface could also be a direct dial-up 16 interface via a modem (not shown). Of course, if communication interface 34 is an network server interface, message data generator 32 also includes (not shown) an 17 appropriate web browsing and/or email messaging tool, as are known in the art (e.g. 18 Netscape[™], Internet Explorer[™], etc.). As mentioned above, a customer or user 28 19 20 supplies message data, via message data generator 32. Message data 12 is input into central controller 18, via communication interface 34, as will be described below. 21 Central controller 18 preferably includes a local database 46, an external 22 23 database controller 44 and at least one communication interface 36 and 70 to communicate with message data generator 32 and external database systems 22, 24 25 respectively. It is important to note at the outset that, although not shown in the figures, central controller 18 and message data generator 32 can communicate 26 27 directly, via a direct modern link over communication interface 34 and 36. Preferably, 28 the communication takes place virtually over an external network server, for example, America On-LineTM or ISP (internet service provider), each of which can be controlled 29 30 by central controller 18. Of course, to communicate over the network,

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1. communication interface 34 and 36 must be appropriately configured for internet

- 2 protocol, e.g., TCP/IP internet protocol. Thus, for example, communication interface
- 3. 36 comprises a TCP/IP network interface to communicate with a network server.
- Message data 12 originating from at least one, but preferably a plurality of remote 4
- 5 message data generators 32, is uploaded into central controller 18 and stored in local
- 6 database 46. In the preferred embodiment, message data 12 is uploaded to central
- 7 controller 18 via, as described above, an network server system. In addition, network
- 8 server, controlled by central controller 18, can provide a user interface to simplify and
- 9 facilitate message data 12 input from a user 28 (described below).
- 10 Upon receiving message data 12, central controller stores the message data 12 11 in local database 46.
- 12 Referring to FIG. 3, the message data output stage 30 of FIG. 1 is depicted.
- 13 Message data output stage 30 is primarily directed to communication with and control
- 14 of database 22 by central controller 18. Database 22 typically comprises a database
- 15 processor 52, a communication interface 48 and a database containing message data
- 16 54. Of course, database 22 also comprises associated hardware and software (not
- 17 shown) associated with database 22. Preferably, database 22 is one of a plurality of
- remote databases that can be communicated with and controlled by central controller 18
- 19 18. Also, preferably database 22 is a preselected database who's identity is stored by
- 20 central controller 18 on the local database 46. Upon receiving and storing message
- data 12 (described above), central controller 18 initiates communication with database 21
- 22, via communication interface 70 and 48. 22
- External database controller 44 is a device that is adapted to communicate with 23
- and control the external database systems 22. At its most basic level, external 24
- database controller is coupled to a local database 46 and a communication interface 25
- 70. In operation, message data 12 is uploaded into central controller 18 and stored on 26
- 27 local database 46. Upon receiving the message data 12, local database 46 is
- appropriately configured to initiate communication with external database controller 28
- 44. Likewise, external database controller initiates communication with the external 29
- database systems 22, via communications interface 70 and 48. External database 30

1 controller 44 contains appropriate hardware and/or software to control database 22. 2 External database controller 22 reads message data 12 contained in local database 46 3 and, via communication interface 36, initiates control signals to search database 54 for 4 matching data contained in message data 12. Although not shown, it is understood by 5 those skilled in the art that local database 46 contains data related to each external 6 database 22. This data preferably includes communications protocol, control data, 7 handshaking protocol, and other information used by external database controller 44 8 to communicate with and control each of the preselected database. Of course, to 9 contain such data, local database must be appropriately programmed by an 10 administrator of central controller 18, as is understood by those skilled in the art. 11 As described above, communication between central controller 18 and 12 database 22 can be initiated over a direct point-to-point link (e.g., via modem) and/or 13 by a virtual connection over a network server. Of course, communication interface 36 and 48 must be appropriately configured to communicate in such a fashion. Central 14 15 controller 18 is adapted to communicate over both mediums, depending on the 16 particular requirements of database 22. 17 FIG. 5 is a flow chart 200 illustrating the operational flow of the abovedescribed information dispersal system of the embodiments shown in FIGS. 1-3. 18 19 Reference shall be made to above-described components without corresponding 20 numbering. The system 100 begins by a user creating a text message containing 21 information request data 102. The user uploads the message to the central controller 22 104, and the central controller stores this message on the local database 108. Upon 23 receiving the message data 12, central controller determines the content of the message data to determine appropriate database systems to communicate with based 24 on the particular information requested 106. Upon receiving and storing the message, 25 central controller initiates communication with an external (remote) database n 110. 26 Central controller queries database n, via control signals initiated by central controller, 27 28 for information matching the information request 118. Central controller, and more specifically, external database controller determines if a match is found between the 29 user-supplied information request and data contained in the external database 112. If 30

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1 a match is not found, external database controller initiates communication to another

- 2 preselected database n + 1. If a match is found, central controller controls the external
- database, based on control signals initiated by the external database controller, to 3
- 4 disperse information in that database matching the information request 114.
- 5 Preferably, the information is dispersed directly back to the user, either in hard copy
- 6 format or in electronic format that can be accessed directly on the message data
- 7 generator. Alternatively, the information can be dispersed to central controller and
- stored there until retrieved by the user. Central controller then initiates 8
- communication to another preselected database n + 1, and the above process repeats. 9
- 10 Central controller generates a report to user indicating which databases have dispersed
- information found 116. 11
- 12 FIG. 4 is a flow chart 100 illustrating the operational flow of the above-
- described personal identification information removal system of the embodiments 13
- 14 shown in FIGS. 1-3. Reference shall be made to above-described components without
- 15 corresponding numbering. The system 200 begins by a user creating a text message
- 16 containing personal ID data 202. The user uploads the message to the central
- controller 204, and the central controller stores this message on the local database 17
- 208. Upon receiving the message data 12, central controller determines the content of 18
- 19 the message data to determine appropriate database systems to communicate with
- based on the particular personal identification to be removed 206. Upon receiving and 20
- storing the message, central controller initiates communication with an external 21
- (remote) database n 208. Central controller queries database n, via control signals 22
- 23 initiated by central controller, for matching message data 210. Central controller, and
- more specifically, external database controller determines if a match is found between 24
- the user-supplied message data and data contained in the external database 212. If a 25
- match is not found, external database controller initiates communication to another 26
- preselected database n + 1. If a match is found, central controller controls the external 27
- database, based on control signals initiated by the external database controller, to 28
- remove information in that database matching the personal identification data 214. .29
- Central controller then initiates communication to another preselected database n + 1. 30

1 access, update and administration from the central controller 18'. In operation, user 2 28' accesses PIN server 64 by dialing a particular access number (e.g., 900 #) over a standard telephone 56. PIN server 64 queries user 28' by preferably using an 3 interactive voice response (IVR) system. Typically, user 28' is requested by PIN 4 server 64 to supply personal information to ensure security, PIN server 64 then issues 5 6 a unique PIN access code number to that user. In addition, PIN server is configured, 7 via the local exchange carrier, to issue a debit to the user's monthly phone record and to issue a corresponding credit report to the central controller 18'. In this regard, PIN 8 9 server 64 can be adapted to provide various levels of services based on the user's 10 preference (i.e., a user can be provided with more services by increasing the debit). 11 The various levels of services offered can be administered and controlled by central controller 18' 12 13 Using the PIN access code issued by PIN server 64, user 28' inputs message 14 data and PIN number 12' using the message data generator 32', as in the previous 15 embodiment. User 28' uploads message data and PIN 12', via communication 16 interface 34' and 36', into central controller. Of course, as in the previous 17 embodiment, communication interface 34' and 36' can be a direct communication or a virtual connection over a network server (internet). Message data and PIN 12' is 18 19 stored on local database 46'. 20 The central controller 18' of this embodiment also includes a telephone 21 network interface 58 adapted to communicate with and control PIN server 64 aver a standard telephone network 62. Central controller 18' routinely accesses PIN server 22 23 64 to get pertinent information regarding the status of PIN server, for example, PIN access codes issued, customer (or user 28') account information, customer personal 24 identification data, etc. This status information is stored on local database 46' and is 25 used by central to compare against the information contained in message data 12' to 26 27 ensure that the person sending the message data 12' is the individual who is granted 28 access to the central controller 18'. Central controller 18' also controls PIN server 64 to facilitate updates and other control functions associated with PIN server 64. For 29 example, central controller 18' is appropriately configured to control PIN server 64 to 30

1 set operational parameters (e.g., user-level access, communication protocol, etc.) and 2 to control various security parameters with the PIN server, as is known in the art. To 3 facilitate communication and control of PIN server, central controller 18' also has an 4 administration system (not shown) appropriately configured to administer and control 5 both the central controller 18' and the PIN server 64. 6 As mentioned above, in this embodiment local database 46' stores both 7 message data and PIN 12' and customer account information. To ensure security, local database checks the information in the message data and PIN access code 12' 8 9 supplied by user 28' against the customer account information supplied by PIN server 64. If a correct match is found, central controller initiates communication with 10 external database system 22, via communications interface 70', in accordance with 11 12 the previous embodiments. FIG. 7 is a flow chart 300 illustrating the operational flow of the information 13 14 request system of the above-described embodiment of FIGS. 3 and 6. Reference will be made to above-described components without corresponding numbering. 15 Customer dials the appropriate access number over a telephone network to access the 16 PIN server 302. After supplying PIN server with customers' identification 17 18 information, PIN server grants customer a unique PIN access code 304. PIN server also generates a debit bill for service directly to customers phone bill, typically 19 generated by a local exchange carrier 304. With knowledge of the PIN granted by 20 PIN server, customer creates a text message containing information request data and 21 PIN access code 308. Customer initiates communication with central controller and 22 23 uploads text message to central controller 310. At periodic intervals, central controller communicates with the PIN server to retrieve valid PIN access codes issued 24 by PIN server for comparison 314. Central controller updates the PIN server with 25 26 current data of valid PIN access codes to ensure that no code is used more than once for a given transaction 316. Central controller compares text message against 27 information supplied by PIN server to validate the PIN account based on personal 28 identification data contained in the text message 312. If the comparison is not valid 29 318, indicating either that customer has supplied the wrong PIN number or the

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1	personal identification associated with the PIN number does not match, central
2	controller generates a message (e.g., email) to customer indicating current status 320.
3	If a match is found 318, central controller stores message data (i.e., personal
4	identification data) in the local database 322. In a similar fashion of the previous
5	embodiment of FIG. 4, upon receiving and storing the message, central controller
6	initiates communication with an external (remote) database n 324. Central controller
7	queries database n, via control signals initiated by central controller, for information
8	matching the information request 326. Central controller, and more specifically,
9	external database controller determines if a match is found between the user-supplied
10	information request and data contained in the external database 328. If a match is not
11	found, external database controller initiates communication to another preselected
12	database n + 1. If a match is found, central controller controls the external database,
13	based on control signals initiated by the external database controller, to disperse
14	information in that database matching the information request 330. Central controller
15	then initiates communication to another preselected database n + 1, and the above
16	process repeats. Central controller generates a report to user indicating which
17	databases have dispersed information 332.
18	FIG. 8 is a flow chart 400 illustrating the operational flow of the information
19	removal system of the above-described embodiment of FIGS. 3 and 6. Reference
20	will be made to above-described components without corresponding numbering.
21	Customer dials the appropriate access number over a telephone network to access the
22	PIN server 402. After supplying PIN server with customers' identification
23	information, PIN server grants customer a unique PIN access code 404. PIN server
24	
	also generates a debit bill for service directly to customers phone bill, typically
25	also generates a debit bill for service directly to customers phone bill, typically generated by a local exchange carrier 404. With knowledge of the PIN granted by
25 26	-
	generated by a local exchange carrier 404. With knowledge of the PIN granted by
26	generated by a local exchange carrier 404. With knowledge of the PIN granted by PIN server, customer creates a text message containing personal identification data
26 27	generated by a local exchange carrier 404. With knowledge of the PIN granted by PIN server, customer creates a text message containing personal identification data and PIN access code 408. Customer initiates communication with central controller

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current data of valid PIN access codes to ensure that no code is used more than once 1 for a given transaction 416. Central controller compares text message against 2 information supplied by PIN server to validate the PIN account based on personal 3 identification data contained in the text message 412. If the comparison is not valid 4 5 418, indicating either that customer has supplied the wrong PIN number or the 6 personal identification associated with the PIN number does not match, central 7 controller generates a message (e.g., email) to customer indicating current status 420. 8 If a match is found 418, central controller stores message data (i.e., personal 9 identification data) in the local database 422. In a similar fashion of the previous 10 embodiment of FIG. 5, upon receiving and storing the message, central controller initiates communication with an external (remote) database n 424. Central controller 11 12 queries database n, via control signals initiated by central controller, for information 13 matching the personal identification data 426. Central controller, and more 14 specifically, external database controller determines if a match is found between the 15 user-supplied information request and data contained in the external database 428. If 16 a match is not found, external database controller initiates communication to another preselected database n + 1. If a match is found, central controller controls the external 17 18 database, based on control signals initiated by the external database controller, to remove information in that database matching the personal identification data 430. 19 Central controller then initiates communication to another preselected database n + 1, 20 and the above process repeats. Central controller generates a report to user indicating 21 22 which databases had data removed 432. Referring to FIG. 9, another embodiment of the message data input stage 20" 23 of the present invention is depicted. Its elements operate essentially the same as the 24 message data input stage 20 and 20' of the previous embodiments. Additionally, 25 26 however, message data input stage 20' provides a network server 66 and an administration system 68, as will be described below. It is to be understood that, 27 although not shown in FIG. 9, central controller 18" incorporates all of the essential 28 elements as in the previous embodiments, i.e., external database controller 44, 44'. At 29 its most basic level, this embodiment provides a system to permit user 28" to contact 30

network server 66, access PIN server 64' through the network server 66, and upload 1 2 message data and PIN access code 12" to central controller 18" directly from the network server 66. Thus, unlike the previous embodiment, customer 28" need not 3 4 make a separate telephone call to the PIN server 64', rather, customer 28'' can receive 5 a PIN access code and upload message data all on the network server 66, as explained 6 below. 7 In this embodiment, customer 28", via massage data generator 32", communicates with network server 66 to facilitate creation and uploading of message 8 data and PIN access code 12". Network server 66 can be a remotely hosted internet 9 10 site, web page, or the like, that is controlled and maintained by central controller 18". 11 Of course, communication interface 34" is appropriately configured to allow message 12 data generator to communicate with network server 66. For example, if network 13 server 66 is a remotely hosted web page, communication interface 34" is 14 appropriately configured to interactively communicate with the web page, e.g., via 15 TCP/IP and/or FTP (file transfer protocol). Network server 66 is appropriately configured to provide customer 28" with 16 the following functions: interactive text communication (e.g., email), access to PIN 17 18 server to obtain a PIN account and direct uploading of message data and PIN access 19 code 12" to central controller 18". In addition, network server 66 communicates 20 with PIN server 64' to dynamically update PIN server 64' directly from the network server 66. For example, customer 28" in this embodiment can change or alter PIN. 21 22 access code data and accompanying message data. Also, the customer 28" can access 23 PIN server 64' to obtain PIN access code, create message data (including PIN access code) and upload this information directly to central controller 18" all in one step. Of 24 course PIN server 64' can be appropriately configured to generate a debit report 25 directly to the user's 28" telephone bill. Or, PIN server 64' can be appropriately 26 configured to accept debit financial transaction directly on the network server 66 (e.g., 27 customer 28" supplies the network server 66 with a credit card account number). PIN 28

server also 64' generates a credit report to central controller and credits an account

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that is set up on PIN server 64' having the central controller 18' as the beneficiary of the funds received.

Similarly, central controller 18" connects to network server 66 via 3 appropriately configured communication interface 36". However, central controller 4 18" is the controller of network server 66, and thus, unlike user 28", is granted full 5 6 access and control over network server 66 and PIN server 64'. To facilitate control 7 and maintenance of network server 66, PIN server 64' and central controller 18", an administration system 68 is provided. Administration system 68 provides an 8 administrator (not shown) access to local database 46" for local programming and 9 administrative functions. Also, administrative system 68 connects to network server 10 to program and administer network server 66 and provide customer 28" parameters, 11 PIN server access and programming and general localized control over network 12 server, as is known in the art. Only central controller 18", via administration system 13 14 68, has the ability to change parameters of the network server 66 and PIN server 64', thus, central controller has global control over network server 66 and PIN server 64' 15 to set parameters for customer-level access. 16

Once the message data has been received by central controller 18", central controller 18" initiates communication to external database 22, to upload and/or control external database system 22 in accordance with the previous embodiments of the message data output stage 30 of the present invention as depicted in FIG. 3.

FIG. 10 depicts another embodiment of the message broadcast system 10' of the present invention and includes communication between central controller 18", message data generator 32" and database systems 22' entirely over a network server 66. Message data input stage 20" of FIG. 9 (described above) is incorporated into FIG. 10. In this embodiment, communication interface 48' of database system 22' is adapted to communicate with the network server, as described above with reference to communication interface 34" and 36". Accordingly, communication interface 36" of central controller 18" is appropriately configured to permit communication and control of database systems 22 directly over the network server. Moreover, in this embodiment, and with particular reference to the information dispersal system of the

present invention, database system 22' can be appropriately controlled by the central 1 controller 18" to forward information directly to the message data generator over the 2 network server 66, without having to pass through the central controller 18". 3 FIG. 11 is a flow chart 600 illustrating the operational flow of the information 4 dispersal system of the above-described embodiment of FIG. 10. Reference will be 5 made to above-described components without corresponding numbering. Customer 6 contacts network server to access the pin server 602. Through interactive 7 communication over the network server, customer is granted a unique PIN access 8 9 code 604. PIN server also generates a debit bill for service directly to customer's 10 phone bill or by a financial transaction over the network server 604. Customer creates a text message, either locally on the message data generator or virtually on the 11 network server, that includes the PIN access code granted by PIN server and 12 information request data 606. Customer initiates communication with central 13 controller and uploads text message to central controller 608. Because network server 14 is in communication with central controller, preferably, network server automatically 15 forwards the text message to central controller. Thus, customer preferably need not 16 make a separate communication with central controller, rather network server 17 provides a direct on-line connection to central controller via, e.g., a web page server. 18 Upon receiving the text message, central controller compares text message to 19 information supplied by PIN server to validate the PIN account based on personal 20 identification data contained in the text message 610 (i.e., using PIN server access and 21 updating 612 and 614, respectively). If the comparison is not valid 616, indicating 22 either that customer has supplied the wrong PIN number or the personal identification 23 associated with the PIN number does not match, central controller generates a 24 message (e.g., email) to customer indicating current status. If a match is found, 25 central controller stores message data in the local database 620. Upon receiving and 26 storing the message, central controller initiates communication with an external 27 (remote) database n 622 over the network server. Central controller queries database 28 n, using control signals supplied by central controller over the network server, for 29 information matching the information request data 624. Central controller, and more 30

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specifically, external database controller determines if a match is found between 1 message data and data contained in the external database 626. If a match is not found, 2 external database controller initiates communication to another preselected database n 3 + 1. If a match is found, central controller controls the external database (over the . 4 network server), based on control signals initiated by the external database controller, 5 to disperse information in that database matching the information request data 628. 6 Moreover, central controller controls the database to disperse the appropriate 7 information directly over the network server to the message data generator (and, 8 ultimately, to the customer). External database controller then initiates 9 communication to another preselected database n + 1, and the above process repeats. 10 After all of the preselected external databases are contacted by central controller, 11 central controller generates a report to user indicating which databases dispersed 12 information 630. 13 FIG. 12 is a flow chart 700 illustrating the operational flow of the information 14 removal system of the above-described embodiment of FIG. 10. Reference will be 15 made to above-described components without corresponding numbering. Customer 16 contacts network server to access the pin server 702. Through interactive 17 communication over the network server, customer is granted a unique PIN access 18 code 704. PIN server also generates a debit bill for service directly to customer's 19 phone bill or by a financial transaction over the network server 704. Customer creates 20 a text message, either locally on the message data generator or virtually on the 21 network server, that includes the PIN access code granted by PIN server and personal 22 identification data 706. Customer initiates communication with central controller and 23 uploads text message to central controller 708. As described above, network server is 24 in communication with central controller and network server automatically forwards 25 the text message to central controller. Thus, customer preferably need not make a 26 separate communication with central controller, rather network server provides a 27 direct on-line connection to central controller via, e.g., a web page server. Upon 28 receiving the text message, central controller compares text message to information 29 supplied by PIN server to validate the PIN account based on personal identification 30

1	data contained in the text message 710 (i.e., using PIN server access and updating 612
2	and 614, respectively). If the comparison is not valid 716, indicating either that
3	customer has supplied the wrong PIN number or the personal identification associated
4	with the PIN number does not match, central controller generates a message (e.g.,
5	email) to customer indicating current status. If a match is found, central controller
6	stores message data in the local database 720. Upon receiving and storing the
7	message, central controller initiates communication with an external (remote)
8	database n 722 over the network server. Central controller queries database n, using
9	control signals supplied by central controller over the network server, for information
10	matching the personal identification data 724. Central controller, and more
11	specifically, external database controller determines if a match is found between
12	message data and data contained in the external database 726. If a match is not found,
13	external database controller initiates communication to another preselected database n
14	+ 1. If a match is found, central controller controls the external database (over the
15	network server), based on control signals initiated by the external database controller,
16	to remove information in that database matching the personal identification data 728.
17	External database controller then initiates communication to another preselected
18	database n + 1, and the above process repeats. After all of the preselected external
19	databases are contacted by central controller, central controller generates a report to
20	customer indicating which databases had personal identification data removed 730.
21	In any of the above-described embodiments, central controller 18, 18' and 18"
22	is adapted to contain optimal searching parameters of database systems 22 for
23	information removal and/or dispersal. Optimal searching is based on the specific
24	content of message data 12, 12', 12" and also the specific database system 22, 22' to
25	be controlled by central controller. Thus, central controller 18, 18' and 18" is adapted
26	to interpret message data 12, 12', 12" to recognize the specific data contained therein.
27	Interpretation of message data 12, 12', 12" can be based on specific text search
28	strings initiated by central controller so that central controller can make an optimal
29	decision for information searching and/or removal. Also, central controller 18, 18'
30	and 18" is adapted to optimally control database systems 22, 22' based on the

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message data and also based on the particular database system to be controlled. In addition, central controller is adapted to contain optimal searching parameters of a 2 3 plurality of database systems 22, 22' and further to implement such parameters in an 4 automatic fashion. As mentioned above, the information dispersal system of the present invention is intended to facilitate refined searching and dispersal of information from a plurality 7 of preselected, specialized database systems 22, 22'. While not wishing to be bound by example, the present invention can provide specialized, efficient information 8 dispersal for medical professionals, legal professionals, trade professionals, localized 9 civic events, voting preferences and voting histories of senators, congressmen at both 10 national and local levels, specific commercial activities, and any other specialized transaction where a user requires specific information on a specific topic. Central 12 controller is therefore adapted to contain control information for a plurality of 13 preselected database systems related to the specialized information requested. To that 14 end, central control is adapted to interpret the incoming message to optimally find the 15 correct information desired. Thus, for example, central controller can provide a user 16 interface that restricts the users' information input, thereby inherently refining the 17 search parameters. This can be accomplished, for example, by providing a web-page 18 interface that requires the user to "pigeon-hole" an information request by requiring 19 progressive refinements. Alternatively, central controller can be adapted to read the 20 message data in directly and scan the text for specific text strings or words that 21 indicate the information request. Either way, central controller initiates 22 communication and control of the database systems based on the message data 23 24 content. Moreover, central controller, via administration system, is continually updated 25 with new database systems that can be controlled by central controller and that fit into 26 a specific category of user information requests. 27 Thus, it is evident that there has been provided a message broadcast system 28 and method for operating same that fully satisfy both the aims and objectives 29

hereinbefore set forth. It will be appreciated that although specific embodiments and

1 methods of use have been presented, many modifications, alternatives and equivalents 2 are possible. 3 There are certain direct marketing database systems that cannot communicate with the central controller 18, 18' or 18". In addition, certain database systems 4 5 require a written (i.e., hardcopy) removal request before removing personal identification data therefrom. In either instance, central controller 18, 18' and 18" can 6 be appropriately modified to communicate with certain ones of the preselected 7 8 database systems that are adapted to generate a hardcopy message and supply these 9 certain database systems with the appropriate location information indicating where to 10 forward the hardcopy message. Local database 46, 46', 46" has been described above as containing 11 information generated from user 28, 28', 28", and database system 22, but local 12 13 database 46, 46', 46'' can also be appropriately configured to contain control data 14 related to PIN server 64, 64' and network server 66. Of course, local database 46, 46', 46" can be separate databases, each separately containing the above-described. 15 parameters, or local database 46, 46', 46" can be one unified database appropriately 16 programmed to contain these parameters in the appropriate format. Optimal search 17 parameters based on the particular message data received and the particular database 18 to be controlled can also be stored on the local database 46, 46', 46" and preferably 19 operate in conjunction with the external database controller 44, 44' to permit optimal 20 control of the external database systems from the central controller. 21 Also, the foregoing detailed description described storing the message data on 22 local database 46, 46', 46" before other action is taken (i.e., communication with 23 database systems 22 and 22'); however, it is to be understood that storing, as defined 24 herein, is only an operational parameter of maintaining the message data locally (i.e., 25 local to the central controller). Thus, storing the message data need not be an 26 additional process that requires additional hardware, but can merely be performed 27 locally in ROM or RAM when the message data is uploaded by the message data 28 29 generator.

1	External database controller 44, 44' is appropriately programmed to facilitate
2	communication with and control of external database systems 22. To this end,
3	administration system can be appropriately configured so as to have global control
4	external database controller 44, 44'. Processor 38, 38' is configured to generally
5	control local database and external database controller, and can be a standard off-the
6	shelf process (e.g., Pentium, RISC) or a customized processor (e.g., PLD), as is
7	known by those skilled in the art. Of course, processor 38, 38' has associated
8	ROM/RAM system 42, 42' for local information processing. Also, central controller
9	and administration system 68 can be separate components or all part of one unified
10	system.
11	Although the foregoing detailed description has proceeded without reference
12	to specific hardware and/or software for implementing the system, it will be
13	understood by those skilled in the art that central controller 18, 18' and 18" of the
14	present invention can be implemented with various hardware, software, or any
15	combination thereof, without departing from the scope of the present invention.
16	Preferably central controller 18, 18' and 18" is implemented with a high-speed
17	computer system and control software that has general applicability to many control
18	scenarios for controlling the database systems heretofore described. Thus, for
19	example, to facilitate high-speed transmission, central controller 18, 18' and 18" car
20	be adapted to communicate over the network using a T1 and/or T3 communication
21	system. Moreover, central controller 18, 18' and 18" can be adapted to permit real-
22	time user interactivity, thus permitting a user to complete the entire transaction (e.g.
23	information removal and/or information dispersal) at one time.
24	In addition, network server 66 can be a preprogrammed internet web page
25	having a user interface that supplies an email messaging system and a direct link to
26	central controller 18, 18', 18". Thus, instead of user creating a text message locally
27	using message data generator, user can create the text message directly on the
28	network server. To this end, network server can be appropriately configured to
29	provide a "fill-in-the-blanks" text message interface for the user. PIN server 64' is
30	programmed by administration system 68 to communicate with network server and

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1	induct to provide administrative conductover 1 nd server 64, via network server 66.
2	Thus, central controller 18" has global control over parameters offered by PIN server
3	64.
4	Although the foregoing detailed description has been described with reference
5	to a variety of particular utilities of the present invention, the present invention is of
6	broad scope intended to cover centralized transactions where an information dispersal
7	system has advantages over the art. For example, the present invention can be utilized
8	as a centralized commercial transaction system whereby users (or customers) can
9	engage in a variety of commercial transactions using the aforementioned information
10	dispersal system of the present invention. Some examples include travel information,
11	greeting card services, news and news related information, etc. In addition, the
12	information dispersal system of the present invention can be adapted to permit a
13	variety of other transactions. For example, the present invention can be utilized as a
14	means of posting a single resume from a job applicant to all appropriate job banks in
15	any geographically remote database systems, as requested by the applicant.
16	Therefore, the present invention is intended to permit message broadcasting
17	(information removal and/or information dispersal) from a centralized controller to
18	access to a variety of geographically remote database systems, depending on the
19	particular request from the user. Of course, to facilitate the above-mentioned
20	transactions, central controller must be appropriately programmed to connect with the
21	particular databases systems, as described herein. The present invention is intended
22	to cover all such applications of the information dispersal system described herein, as
23	set forth in the appending claims.
24	Accordingly, the present invention is intended to cover all such alternatives,
25	modifications, and equivalents as may be included within the spirit and broad scope of
26	the invention as defined only by the hereafter appended claims.

I	CLAIMS
2	 A message broadcast system comprising:
3	at least one message data generator 32 adapted to generate message data 12
4	that contains preference data;
5	at least one preselected database system 22; and
6	a central controller 18 adapted to communicate with said message data
7	generator 32 and said database systems 22 to receive and store said message data 12
8	from said message data generator 32, and to broadcast said message data 12 to said
9	preselected database systems 22 to reflect said preference data contained in said
0	message data.
1	2. A system as claimed in claim 1, wherein said central controller 18, said
2	message data generator 32 and said database system 22 each further comprise at least
3	one communication interface (34, 36, 70).
4	3. A system as claimed in claim 2, characterized by one or more of the
5	following features:
6	(a) further comprising a network server 66 wherein each said communication
7	interface 34" are adapted to communicate over said network server 66, wherein said
8	network server 66 is globally controlled by said central controller 18";
9	(b) wherein said communication between said central controller and said
0.	message data generator comprises direct communication via said communication
21	interface;
22	(c) wherein said communication between said central controller and said
23	database system comprises direct communication via said communication interface;
.4	(d) wherein said message data is generated on said network server and
25	uploaded to said central controller from said network server;
26	(e) wherein said central controller further comprises a local database 46 for
27	storing said message data, wherein said local database preferably stores information
8.	related to said database systems; and wherein said information related to said
9	preselected database systems preferably comprises identity, communications protocol

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1	data for communication between said central controller and said database system and
2	control information used by central controller to control said database systems;
3	(f) wherein said central controller further comprises a database controller 44
4	for generating control and communication signals to said database systems;
5	(g) wherein said database systems comprise a plurality of geographically
6	remote database systems;
7	(h) wherein said central controller is adapted to automatically broadcasts said
8	message data to said preselected database systems upon receipt of said message data;
9	(i) wherein said message data generator is adapted to generate an electronic
10	mail message containing said message data and communicate said electronic mail to
11	said central controller;
12	(j) wherein said communication between said central controller and said
13	database systems comprises electronic mail communication;
14	(k) wherein central controller is adapted to communicate with certain ones of
15	said database systems adapted to generate a copy of said message data, said certain
16	ones of said database systems adapted to forward said copy said message data to other
17	ones of said database systems incapable of communicating with said central
18	controller, wherein preferably said certain ones of said database systems are adapted
19	to automatically generate a hard copy of said message data and automatically forward
20	said hard copy to said other certain ones of said database systems, and wherein said
21	hard copy preferably is forwarded by mail;
22	(l) wherein said central controller further comprises an administration system
23	68 adapted to permit global control and access of said central controller;
24	(m) wherein said database systems comprise professional organizations
25	database systems and wherein said preference data contains information request data
26	related to said professional organization; central controller is adapted to receive said
27	information request data from said message data generator and communicate said
28	information request to said professional organizations database systems to respond to
29	said information request to a user supplying said message data;

1	(n) wherein said database systems comprise database systems containing
2	personal identification data wherein said central controller is adapted to receive said
3	message data containing personal identification data from said message data generator
4	and control said database systems and control said database systems to remove data
5	matching said personal identification data from said database systems, wherein said
6	personal identification data preferably comprises name, address, email address and
7	telephone number of a user of said message data generator, and wherein said database
8	systems containing said personal identification data preferably are database systems
9	used by bulk mailers, bulk emailers and telemarketers;
10	(o) wherein said database systems comprise governmental database systems
1,1	containing information related to government officials and government actions;
12	central controller is adapted to receive said message data containing said preference
13 ·	data from said message data generator and broadcast said preference data to said
14	government database systems, wherein said preference data preferably comprises
15	voting preference and opinion information;
16	(p) wherein said preference data includes order request data and wherein said
17	central controller is adapted to communicate with and control said database systems to
18	reflect said order request data; and
19	(q) wherein said central controller further comprises optimal searching and
20	control parameters to permit optimal control of said database systems based on the
21	particular content of said message data and the particular database system controlled
22	by said central controller.
23	4. A system as claimed in claim 1, characterized by one or more of the
24	following features:
25	(a) wherein said preference data comprises postal address data and wherein
26	said central controller is adapted to control said database systems to remove said
27	preference data from said database systems;
28	(b) wherein said preference data comprises email address data and wherein
29	said central controller is adapted to control said database systems to remove said
20	profesence data from said database systems.

1	(c) wherein said preference data comprises phone number data and wherein
2	said central controller is adapted to control said database systems to remove said
3	preference data from said database systems; and
4	(d) wherein said preselected database systems are selected by said central
5	controller based on information contained in said preference data.
6	5. A system as claimed in claim 1, wherein said preference data
7	comprises information request data and location identification data; wherein said
. 8	central controller is adapted to communicate said information request data to said
9	preselected database systems to disperse information contained in said information
10	request data from said database systems back to a location specified in said location
11	identification data.
12	6. A system as claimed in claim 5, characterized by one or more of the
13	following features:
14	(a) wherein said preselected database systems are selected by said central
15	controller based on information contained in said information request data;
16	(b) wherein said information request data comprises request information for a
17	particular interest; and
18	(c) wherein said location identification data comprises location information
19	including related to a user of said message data generator.
20	7. A system as claimed in claim 1, further comprising a PIN server 64 for
21	generating a unique access code, said PIN server being accessed by a user of said
22	message data generator.
23	8. A system as claimed in claim 7, characterized by one or more of the
24	following features:
25	(a) wherein said message data includes said access code;
26	(b) wherein said central controller is adapted to communicate with and control
27	said PIN server, and wherein said central controller preferably is adapted to receive
28	said message data including said unique access code and to permit said user to gain
29	access to said central controller upon verification of said access code;
30	(c) wherein said PIN server is accessed by said user over a telephone 56;

1	(d) wherein said PIN server further includes an interactive voice response
2	(IVR) system to communicate with said user;
3	(e) further comprising a network server wherein said PIN server is adapted to
4	communicate with said network server; said message data generator and said central
5	controller are adapted to communicate with said PIN server via said network server;
6	(f) wherein said PIN server is adapted to generate a debit report to said user
7	and said central controller; and
8	(g) wherein said PIN server is adapted to permit a financial transaction
9	between said PIN server and said user, and further adapted to debit said user and
10	credit said central controller; and wherein control of said PIN server by said central
11	controller preferably includes controlling said PIN server to permit said user limited
12	access to said PIN server.
13	9. A system to remove information from a plurality of remote database
14	systems 22 comprising a central controller 18 adapted to communicate with at least
15	one message data generator 22 to receive and store at least one message 12 containing
16	personal identification data therein generated by said message data generator, said
17	central controller generating control signals to control a plurality of preselected
18	database systems 22 to remove information matching said personal identification data
19	from said database systems.
20	10. A system as claimed in claim 9, characterized by one or more of the
21	following features:
22	(a) wherein said central controller and said message data generator
23	communicate over a network server 66; wherein said network server preferably is
24	controlled by said central controller;
25	(b) wherein said personal identification data comprises email address
26	information data;
27	(c) wherein said personal identification data comprises postal address
28	information data;
29	(d) wherein said personal identification data comprises telephone number
30	information data;

1	(e) wherein said preselected database systems comprises database systems
2	used by bulk mailing, bulk emailing and/or telemarketing organizations; wherein said
3	database systems supply said organization with said customer identification data so
4	that said organizations can conduct bulk mailings, bulk emailings and/or
5	telemarketing activities;
6	(f) further comprising a PIN server 64 in communication with a network serve
. 7	66, said message data generator adapted to communicate with said network server to
8	access said PIN server, said PIN server is adapted to generate a unique access code to
9	a user of said message data generator, said central controller and said message data
10	generator are adapted to communicate over said network server wherein said central
11	controller grants said user access to said central controller to upload said message dat
12	upon verification of said unique access code;
13	(g) wherein said central controller and said database systems communicate
14	over a network server;
15	(h) further comprising a PIN server for generating a unique access code, said
16	PIN server is adapted to be accessed by a user of said message data generator over a
17	telephone 56; wherein said user includes said unique access code with said message
18	data when communicating with said central controller; and
19	(i) wherein said central controller further comprises optimal control
20	parameters to optimally control and remove said information contained in said
21	message data from said database systems.
22	11. An information dispersal system comprising a central controller 18
23	adapted to communicate with at least one message data generator 32 to receive and
24	store at least one message 12 containing information request data therein generated by
25	said message data generator, said central controller generating control signals to
26	control a plurality of preselected database systems 22 to disperse information
27	requested in said information request data back to said message data generator.
28	12. A system as claimed in claim 11, characterized by one or more of the
29	following features:

1	(a) wherein said central controller and said message data generator
2	communicate over a network server 66;
3	(b) wherein said information request data comprises a request for information
4	concerning particular professional organizations;
5	(c) wherein said information request data comprises a request for information
6	concerning civic activities;
7	(d) wherein said information request data comprises a request for information
8	concerning political activities;
9	(e) wherein said information request data comprises a request for information
10	concerning commercial activities;
11	(f) wherein said information request data comprises a request for information
12	concerning academic activities;
13	(g) wherein said preselected database systems comprises database systems
14	selected by said central controller based upon the particular information requested in
15	the information request data;
16	(h) further comprising a PIN server 64 in communication with a network
17	server, said message data generator adapted to communicate with said network server
18	to access said PIN server, said PIN server is adapted to generate a unique access code
19	to a user of said message data generator, said central controller and said message data
20	generator are adapted to communicate over said network server wherein said central
21	controller grants said user access to said central controller to upload said message data
22	upon verification of said unique access code, wherein said network server is
23	controlled by said central controller;
24	(i) wherein said central controller and said database systems communicate
25	over a network server;
26	(j) further comprising a PIN server for generating a unique access code, said
27	PIN server is adapted to be accessed by a user of said message data generator over a
28	telephone 56; wherein said user includes said unique access code with said message
29	data when communicating with said central controller; and

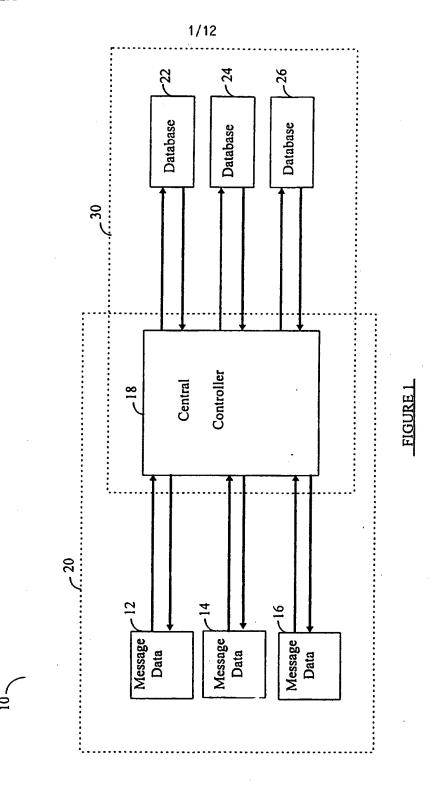
1	(k) wherein said central controller further comprises optimal control
2	parameters to optimally control said database system and optimally search for said
3	information in said database system and optimally disperse said information from said
4	database system, said optimal control parameters being based on said information
5	request data and said database systems.
6	13. A system to remove personal identification data from a plurality of
7	preselected database systems containing such data comprising:
8	a PIN server system 34 in communication with a network server 66, said PIN
9	server adapted to generate a unique PIN access code to a user 28;
10	at least one remote message data generator 32 adapted to communicate with
11	said PIN server via said network server and adapted to generate message data that
· 12	contains said PIN access code and personal identification data related to said user of
13	said message data generator;
14	a central controller 18 adapted to communicate with said network server to
15	receive and store said message data from said message data generator and adapted to
16	communicate with a plurality of preselected database systems 22 and control said
17	database systems to remove said personal identification data from said database
18	systems.
19	14. A system as claimed in claim 13, characterized by one or more of the
20	following features:
21	(a) wherein said network server is globally controlled by said central
22	controller;
23	(b) wherein said PIN server is globally controlled by said central controller;
24	(c) wherein said PIN server is adapted to generate a debit report to said user;
25	(d) wherein said central controller communicates with said PIN server via said
26	network server to receive information related to PIN access codes granted by said PIN
27	server, said central controller adapted to permit said user access to said central
28	controller only after verification of PIN access code by said central controller;
29	(e) wherein said personal identification data comprises postal address data;
30	(f) wherein said personal identification data comprises email address data;

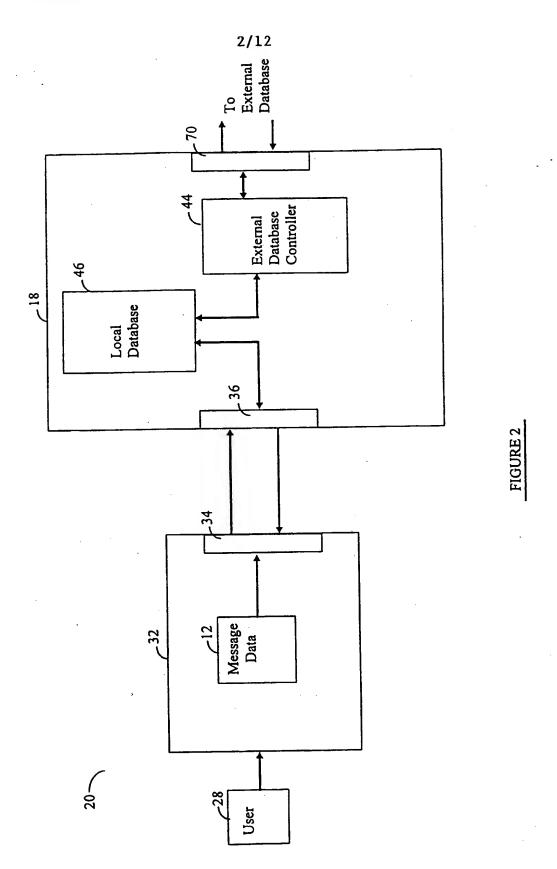
1	(g) wherein said personal identification data comprises phone number data;
2	(h) wherein said database systems containing said personal identification data
3	are database systems used by bulk mailers, bulk emailers and telemarketer;
4	(i) wherein said PIN server is adapted to generate a credit report to said
5	central controller; and
6	(j) wherein said central controller further comprises optimal control
7	parameters to optimally control and remove said information contained in said
8	message data from said database systems.
9	15. An information dispersal system comprising:
10	a PIN server system 64 in communication with a network server 66, said PIN
11	server adapted to generate a unique PIN access code to a user 28;
12	at least one remote message data generator 32 adapted to communicate with
13	said PIN server via said network server and adapted to generate message data 12 that
14	contains said PIN access code and information request data related to said user of said
15	message data generator;
16	a central controller 18 adapted to communicate with said network server to
17	receive and store said message data from said message data generator and adapted to
18	broadcast said message data to a plurality of preselected database systems 22 and
19	control said database systems to disperse information related to said information
20	request.
21	16. A system as claimed in claim 15, characterized by one or more of the
22	following features:
23	(a) wherein said network server is globally controlled by said central
24	controller;
25	(b) wherein said PIN server is globally controlled by said central controller;
26	(c) wherein said PIN server is adapted to generate a debit report to said user;
27	(d) wherein said central controller communicates with said PIN server via said
28	network server to receive information related to PIN access codes granted by said PIN
29	server, said central controller adapted to permit said user access to said central
30	controller only after verification of PIN access code by said central controller;

1	(e) wherein said PIN server is adapted to generate a credit report to said centra
2	controller;
3	(f) wherein said information request data comprises a request for information
4	concerning particular professional organizations;
5	(g) wherein said information request data comprises a request for information
6	concerning civic activities;
7	(h) wherein said information request data comprises a request for information
8	concerning political activities;
9	(i) wherein said information request data comprises a request for information
10	concerning commercial activities;
11	(j) wherein said information request data comprises a request for information
12	concerning academic activities;
13	(k) wherein said preselected database systems comprises database systems
14	selected by said central controller based upon the particular information requested in
15	the information request data;
16	(l) wherein said central controller supplies said database systems with location
17	identification information of said user so that said dispersed information is dispersed
18	back to said user; and
19	(m) wherein said central controller further comprises optimal control
20	parameters to optimally control said database system and optimally search for said
21	information in said database system and optimally disperse said information from said
22	database system, said optimal control parameters being based on said information
23	request data and said database systems.
24	17. A method to remove personal identification data from a plurality of
25	database systems containing such data, said method comprising the steps of:
26	generating a message containing personal identification information therein
27	202;
28	uploading said message into a central controller 204;
29	having said central controller select a plurality of remote database systems
30	having said personal identification data therein 206;

1	connecting said central controller to said plurality of remote database systems
2	210;
3	controlling said plurality of remote database systems from said central
4	controller to remove information matching said personal identification data from said
5	database systems 214.
6	18. A method as claimed in claim 17, and further comprising the step of
7	contacting a PIN server to receive a unique PIN access code 602 and uploading said
8	PIN access code with said message data into said central controller 606; and wherein
9	said step of uploading said personal identification data into said central controller
10	preferably is performed on a network server.
11	19. A method as claimed in claim 18, characterized by one or more of the
12	following features:
13	(a) further comprising the step of checking the validity of said access code by
14	said central controller 610;
15	(b) further comprising the step of having the PIN server generate a debit
16	transaction to the individual who receives said unique access code;
17	(c) further comprising the step of having the PIN server generate a credit
18	transaction to the central controller;
19	(d) wherein said step of contacting a PIN server to receive a unique PIN access
20	code and uploading said PIN access code with said message data into said central
21	controller and said step of uploading said message data into said central controller are
22	performed on a network server; and
23	(e) further comprising the step of optimally controlling said database systems
24	to remove said personal identification data based on said message data and said
25	database systems.
26	20. A method to disperse information based on information contained in ar
27	information request, said method comprising the steps of:
28	generating a message containing information request data therein 102;
29	uploading said message into a central controller 104;

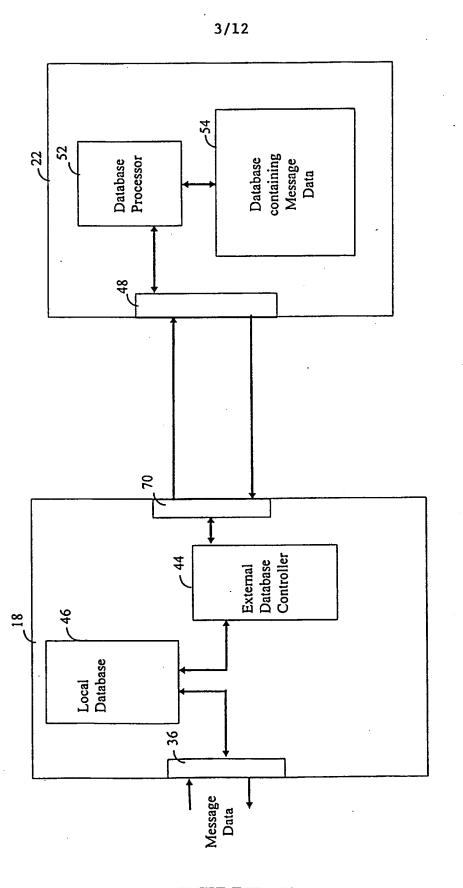
1	having said central controller select a plurality of remote database systems
2	having information related to said information request therein 106;
3	connecting said central controller to said plurality of remote database systems
4	110;
5	controlling said plurality of remote database systems from said central controller to
6	disperse information related to said information request from said database systems
7	114.
8	21. A method as claimed in claim 20, and further comprising the step of
9	contacting a PIN server to receive a unique PIN access code 302 and uploading said
10	PIN access code with said message data into said central controller 308; wherein said
11	step of uploading said message data into said central controller preferably is
12	performed on a network server.
13	22. A method as claimed in claim 21, characterized by one or more of the
14	following features:
15	(a) further comprising the step of checking the validity of said access code by
16	said central controller 312;
17	(b) further comprising the step of having the PIN server generate a debit
18	transaction to the individual who receives said unique access code 304;
19	(c) further comprising the step of having the PIN server generate a credit
20	transaction to the central controller;
21	(d) wherein said step of contacting a PIN server to receive a unique PIN
22	access code and uploading said PIN access code with said message data into said
23	central controller and said step of uploading said message data into said central
24	controller are performed on a network server; and
25	(e) further comprising the step of optimally searching said database systems
26	for said information and optimally controlling said database systems to disperse said
27	information.





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FIGURE 3



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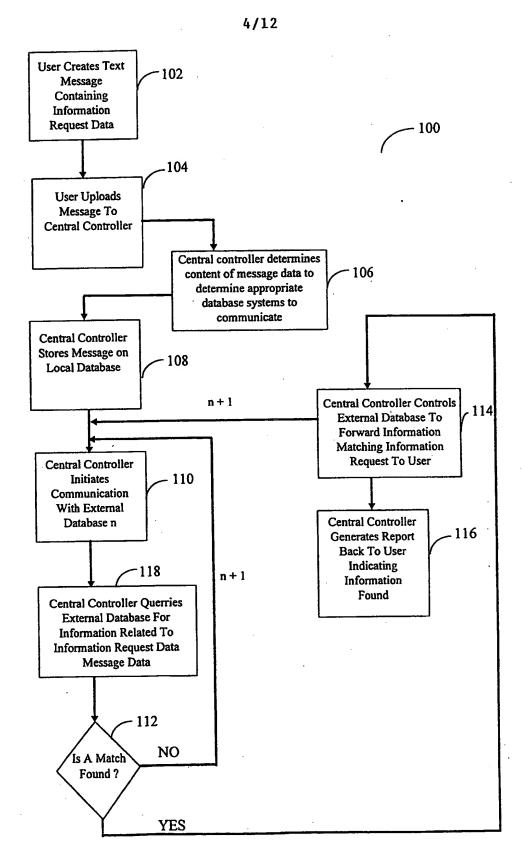


FIGURE 4
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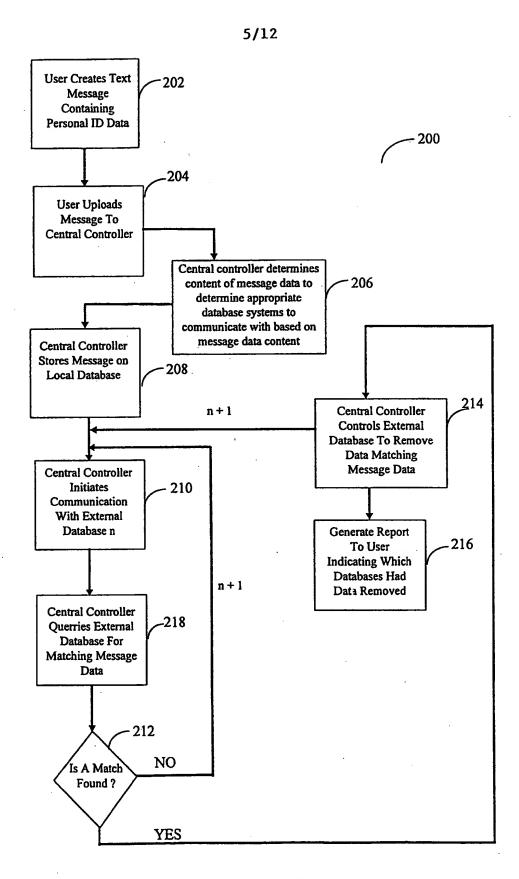
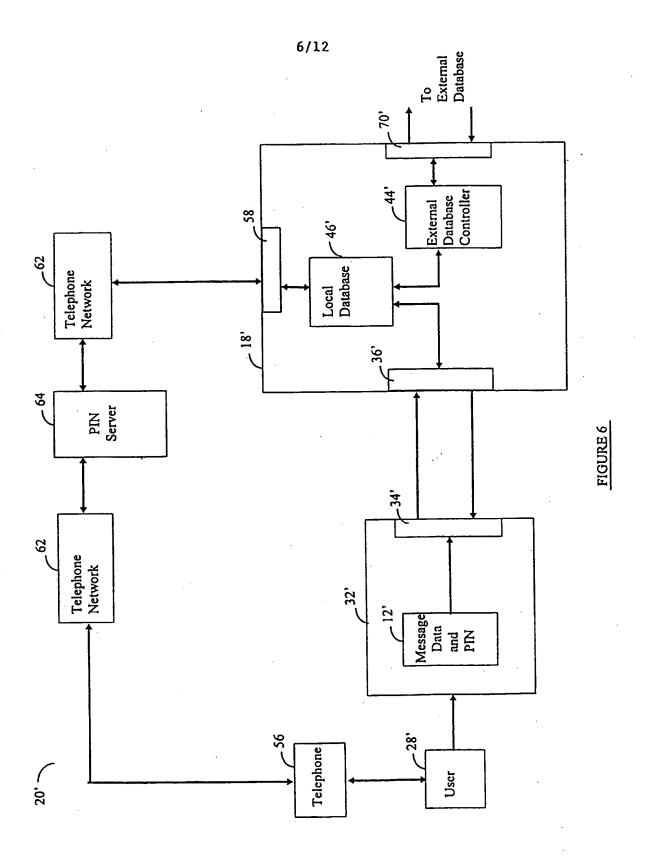


FIGURE 5
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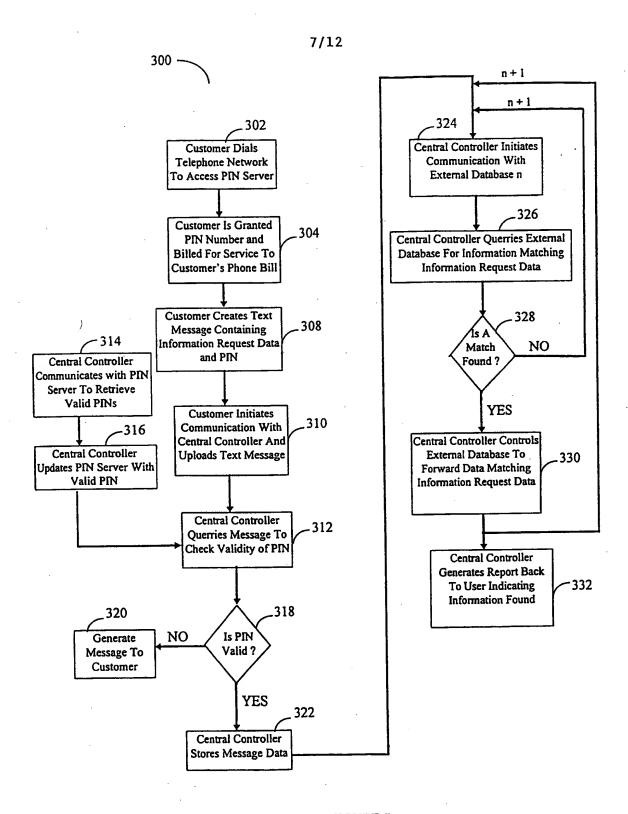


FIGURE 7

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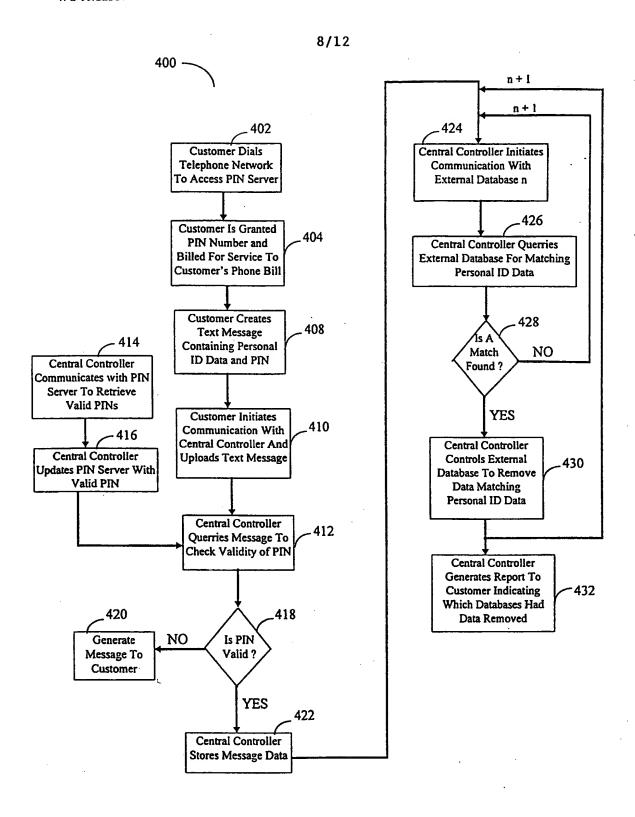
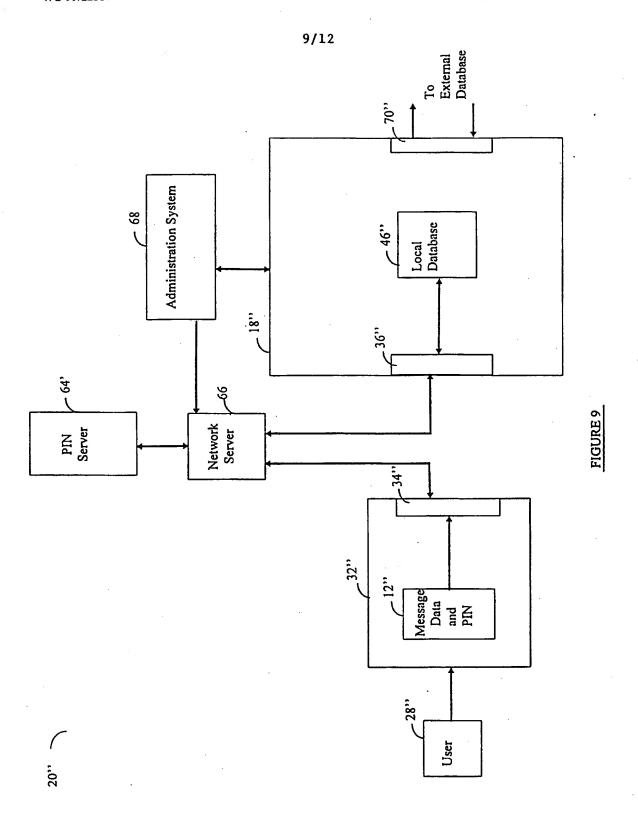
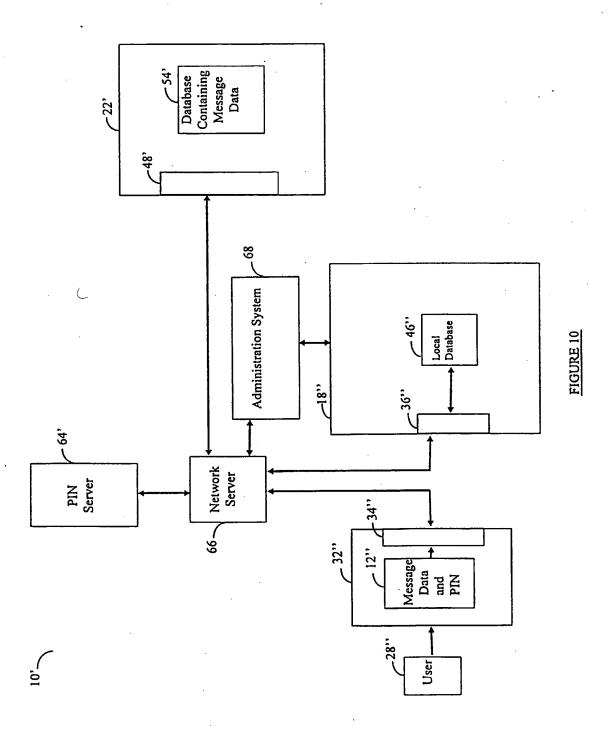


FIGURE 8



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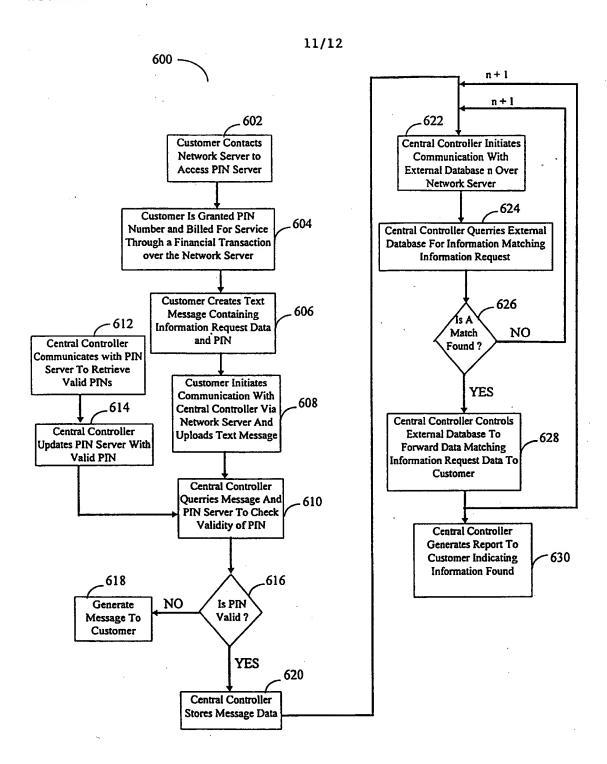


FIGURE 11

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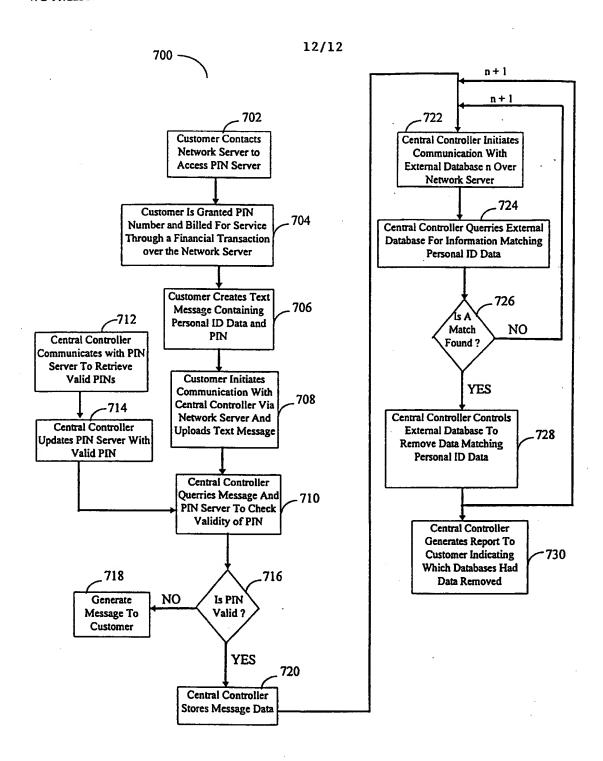


FIGURE 12